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Application Number	10/633,630
Filing Date	August 5, 2003
First Named Inventor	Klaus GIESE, et al.
Art Unit	1635
Examiner Name	Kimberly Young
Attorney Docket Number	14677-003US

U.S. PATENT DOCUMENTS

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	B1	WO 00/44895	08/03/2000	KREUTZER, et al.	Abstract only	
	B2	EP 1 144 623 B1	01/29/2000	RIBOPHARMA AG		
	B3	WO 99/53050	10/21/1999	WATERHOUSE et al.		
	B4	WO 99/49029	09/30/1999	GRAHAM		
	B5	WO 00/63364	10/26/2000	PACHUK, et al.		
	B6	WO 99/32619	07/01/1999	FIRE et al.		
	B7	WO 00/44914	08/03/2000	LI, et al.		
	B8	WO 99/61631	12/02/1999	HEIFETZ, et al.		
	B9	WO 00/01846	01/13/2000	PLEATNICK et al.		
	B10	WO 92/19732	11/12/1992	GENSET	Abstract only	
	B11	WO 98/05770	02/12/1998	ROTHBARTH, et al.	Abstract only	
	B12	WO 98/53083	11/26/1998	GRIERSON, et al.		
	B13	WO 99/15682	04/01/1999	BAULCOMBE, et al.		
	B14	DE 196 18 797	11/13/1997	GABNER, et al.		
	B15	WO 00/44495	08/03/2000	LLOYD, et al.		
	B16	WO 01/36646	05/25/2001	ZERNICKA-GOETZ, et al.		

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	1	ANDREW J. HAMILTON and DAVID C. BALCOMBE, Species of Small Antisense RNA In Posttranscriptional Gene Silencing in Plants, SCIENCE, vol. 286, October 29, 1999, pp. 950-951.	<input type="checkbox"/>
	2	ANDREW FIRE, et al., Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans, Nature O Macmillan Publishers Ltd. 1993, vol. 391/191, pp. 806-811.	<input type="checkbox"/>
	3	PETER M. WATERHOUSE, et al., Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA, Communicated by W. James Peacock, Commonwealth Scientific and Industrial Research Organization, Canberra, Australia, August 17, 1998, vol. 95, pp. 13959-13964.	<input type="checkbox"/>
	4	MOHAMMAD B. BAHAMIAN, et al., Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ collagen by a Homologous Transcriptionally Self-Silenced Transgene, Molecular and Cellular Biology, Jan. 1999, vol. 19, No. 1, pp. 274-283.	<input type="checkbox"/>
	5	PHILLIP A. SHARP, RNAi and Double-strand RNA, Genes & Development, vol. 13, pp. 139-141, Cold Spring Harbor Laboratory Press, 1999.	<input type="checkbox"/>
	6	THOMAS TUSCH, et al., Targeted mRNA Degradation by double-stranded RNA in vitro, Genes & Development, vol. 13, pp. 3191-3197; Cold Spring Harbor Laboratory, 1999.	<input type="checkbox"/>
	7	News of the Week, Science, Candidate Gene Silencers Found, Fetal Cells Help Parkinson's Patients, Science, vol. 286, pp. 886, October 29, 1999.	<input type="checkbox"/>
	8	RUEYLING LIN and LEON AVERY, Policing Rogue Genes, Nature, vol. 402, pp. 128-129, November 11, 1999	<input type="checkbox"/>
	9	MICHAEL T. MCMANUS, et al., Gene Silencing in Mammals by Small Interfering RNAs, Center for Cancer Research Massachusetts, vol. 3, pp. 737-750, October 2002	<input type="checkbox"/>
	10	MARY K. MONTGOMERY, et al., Double-stranded RNA As a Mediator in Sequence-Specific Genetic Silencing and Co-Suppression, TIG, vol. 14 No. 7, pp. 255-256 and 258, July 1998.	<input type="checkbox"/>

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	11	JOHN WILEY & SONS, Current Protocols in Molecular Biology, vol. 1, 1999	<input type="checkbox"/>
	12	MICHAEL Y. X. MA, et al., Design and Synthesis of RNA Miniduplexes via a Synthetic Linker Approach, Biochemistry, vol. 32, No. 7, 1993, pp. 1751-1758.	<input type="checkbox"/>
	13	R. SCHLINGENSIEPEN, et al., Antisense- From Technology to Therapy, EX LIBRIS [ROCHE], vol. 6, pp.30-38	<input type="checkbox"/>
	14	IIHO HA, et al., A Bulged Lin-4/lm-14 RNA Duplex is Sufficient for Caenorhabditis Elegans Lin-14 Temporal Gradient Formation, Genes & Development vol. 10, pp. 3041-3050	<input type="checkbox"/>
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	16	RICHARD H. GRIFFEY, et al., 2'-O-Aminopropyl Ribonucleotides; A Zwitterionic Modification that Enhances the Exonuclease Resistance and Biological Activity of Antisense Oligonucleotides, J. Med. Chem. 1996, vol. 39, pp. 5100-5109.	<input type="checkbox"/>
	17	THEO T. NIKIFOROV, et al., Oligodeoxynucleotides Containing 4-Thiothymidine and 6-Thiodexyguanosine as Affinity Labels for the Eco RV Restriction Endonuclease and Modification Methylase, Nucleic Acids Research, vol. 20, pp. 1209-1214.	<input type="checkbox"/>
	18	JANE A. GRASBY, et al., Purine Functional Groups in Essential Residues of the Hairpin Ribozyme Required for Catalytic Cleavage of RNA, Biochemistry 1995, vol. 34, pp. 4068-4076.	<input type="checkbox"/>
	19	THOMAS HORN, et al., Chemical Synthesis and Characterization of Branched Oligodeoxynucleotides (bdNA) For Use As Signal Amplifiers in Nucleic Acid Quantification Assays, Nucleic Acids Research, 1997, vol. 25, No. 23, pp. 4842-4849.	<input type="checkbox"/>
	20	REIKO IWASE, et al., Gene Regulation by Decoy Approach (I): Synthesis and Properties of Photo-crosslinked Oligonucleotides, Nucleic Acids Symposium Series No. 37, pp. 203-204	<input type="checkbox"/>
	21	EUGENE SKRIPKIN, et al., Psoralen Crosslinking Between Human Immunodeficiency Virus Type 1 RNA and Primer tRNA ³ Lys, Nucleic Acids Research, 1996, vol. 24, No. 3, pp. 509-514.	<input type="checkbox"/>

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	22	SERGEI M. GRYAZNOV, et al., Template Controlled Coupling and Recombination of Oligonucleotide Blocks Containing Thiophosphoryl Groups, Nucleic Acids Research, 1993, vol. 21, No. 6, pp. 1403-1408	<input type="checkbox"/>
	23	RAVINDERJIT S. BRAICH, et al., Regiospecific Solid-Phase Synthesis of Branched Oligonucleotides. Effect of Vicinal 2',5'-(or 2',3')- and 3',5'-Phosphodiester Linkages on the Formation of Hairpin DNA, Bioconjugate Chem., 1997, vol. 8, pp. 370-377.	<input type="checkbox"/>
	24	ALOKES MAJUMDAR, et al., Targeted Gene Knockout Medicated by Triple Helix Forming Oligonucleotides, Nature Genetics, vol. 20, October 1998, pp. 212-214.	<input type="checkbox"/>
	25	DINESH A. BARAWKAR, et al., Synthesis, Biophysical Properties, and Nuclease Resistance Properties of Mixed Backbone Oligodeoxynucleotides Containing Cationic Internucleoside Guanidinium Linkages: Deoxynucleic Guanidine/DNA Chimeras, Proc. Natl. Acad. Sci. USA, vol. 95, pp 11047-11052, September 1998 Chemistry, Biochemistry.	<input type="checkbox"/>
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	26	ANALOGUES: SYNTHESIS OF 2',3'-BRIDGED MONOMERS AND RNA-Selective Hybridisation, Chem. Commun., 1997, pp. 825-826.	<input type="checkbox"/>
	27	Mark D. PEGRAM, et al., PHASE II STUDY OF RECEPTOR-ENHANCED CHEMOSENSITIVITY USING RECOMBINANT HUMANIZED ANTI-p185her2/NEU Monoclonal Antibody Plus Cisplatin in Patients With HER2/neu-Overexpressing Metastatic Breast Cancer Refractory to Chemotherapy Treatment, Journal of Clinical Oncology, Vol. 16, No. 8 (August), 1998: pp. 2659-2671.	<input type="checkbox"/>
	28	SAYDA M. ELBASHIR, et al., FUNCTIONAL ANATOMY OF siRNAs for MEDIATING Efficient RNAi in Drosophila melanogaster embryo Lysate, The EMBO Journal vol. 20, No. 23, pp. 6877-6888, 2001.	<input type="checkbox"/>
	29	FRANK CZAUDERNA, et al., Structural Variations and Stabilising Modifications of Synthetic siRNAs in Mammalian Cells, Nucleic Acids Research, 2003, vol. 31, No. 11, pp2705-2716.	<input type="checkbox"/>
	30	DIANNE S. SCHWARZ, Evidence that siRNAs Function as Guides, Not Primers, in the Drosophila and Human RNAi Pathways, Molecular Cell, vol. 10, pp. 537-548, September, 2002.	<input type="checkbox"/>
	31	JOHN G. DOENCH, et al., siRNAs Can Function as miRNAs, Genes & Development, vol. 17, pp 438-442, 2003.	<input type="checkbox"/>
	32	ROSALIND C. LEE, et al., The C. Elegans Heterochronic Gene Lin-4 Encodes Small RNAs with Antisense Complementarity to Lin-14, Cell, vol. 75, pp. 843-854, December 3, 1993.	<input type="checkbox"/>

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	33	ERIC G. MOSS, et al., The Cold Shock Domain Protein Lin-28 Controls Developmental Timing in C. Elegans and is Regulated by the Lin-4 RNA, Cell, vol. 88, pp. 637-646, March 7, 1997.	<input type="checkbox"/>
	34	YANG SHI, et al., A CBP/p300 Homolog Specifies Multiple Differentiation Pathways in Caenorhabditis Elegans, Genes & Development, vol. 12, No. 7, pp. 943-955, April 1, 1998.	<input type="checkbox"/>
	35	JASON R. KENNERDEIL, et al., Use of dsRNA-Mediated Genetic Interference to Demonstrate that Frizzled and Frizzled 2 Act in the Wingless Pathway, Cell, vol. 95, pp. 1017-1026, December 23, 1998	<input type="checkbox"/>
	36	TIMMONS L. FIRE, A., Specific Interference by Ingested dsRNA., Nature, October 29, 1998, pp. 395.	<input type="checkbox"/>
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	38	BAYESIAN STATISTICAL METHODS, RNA-Triggered Gene Silencing, TIG, September 199, vol. 15, No. 9, pp. 364-365.	<input type="checkbox"/>
	39	PHILIP D. ZAMORE, et al., RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals, Cell, vol. 101, pp. 25-33, March 31, 2000.	<input type="checkbox"/>
	40	DR. ANGELIKA FALLERT-MULLER, et al., Lexikon der Biochemie; pp. 447-449.	<input type="checkbox"/>
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	42	MARY K. MONTGOMERY, et al., RNA as a Target of Double-Stranded RNA-Mediated Genetic Interference in Caenorhabditis Elegans, Proc. Natl Acad. Sci. US1, vol. 95, pp. 15502-15507, December 1998.	<input type="checkbox"/>
	43	FLORENCE WIANNY, et al, Specific Interference with Gene Function by Double-Stranded RNA in Early Mouse Development, Nature Cell Biology, vol. 2, February 2000, pp. 70-75.	<input type="checkbox"/>

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	44	BORECKY L, et al., Therapeutic Use of Double-Stranded RNAs in man, Tex Rep Biol Med 1981-1982, vol. 41, pp. 575-81	<input type="checkbox"/>
	45	MADHUR KUMAR, et al., Antisense RNA: Function and Fate of Duplex RNA in Cells of Higher Eukaryotes, Microbiology and Molecular Biology Reviews, December 1998, pp. 1415-1434.	<input type="checkbox"/>
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	47	SUDHIR AGRAWAL, et al., Self-Stabilized Oligonucleotides as Novel Antisense Agents, Nucleic Acids, Res., vol. 21, 1993.	<input type="checkbox"/>
	48	PATRICK J. PADDISON, et al., Short Hairpin RNAs (shRNAs) Induce Sequence-Specific Silencing in Mammalian Cells, Genes & Development vol. 16, pp. 948-958, 2002.	<input type="checkbox"/>
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	50	PIERRE G. MILHAUD, et al., Free and Liposome-encapsulated Double-Stranded RNAs as Inducers of Interferon, Interleukin6, and Cellular Toxicity, Journal of Interferon Research vol. 11, pp. 261-265, 1991.	<input type="checkbox"/>

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	51	JENNIFER COUZIN, Breakthrough, Small RNAs Make Big Splash, Science, vol. 298, pp. 2296-7, December 2002	
	52	ANTONIO REGALADO, Turning Off Genes Sheds New Light On How They Work, The Wall Street Journal, August 2002.	
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	69	JUDGE et al, Nature Biotechnology, vol. 23, No. 4, pp. 457-62, April 2005	
	70	Applicant's Response to the Written Opinion in the Examination proceedings 28.03.2001.	
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Application Number	10/633,630
Filing Date	August 5, 2003
First Named Inventor	Klaus GIESE, et al.,
Art Unit	1635
Examiner Name	Kimberly Chong
Attorney Docket Number	14677-003US

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	82	CHIEN, et al., Cancer Gene Therapy, 1-8, 2004.	
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	100	Priority Document of 9927444.1, Cancer Res. Camp. Technol. Ltd. Inhibiting Gene Expression, Publ. Nov.19,1999, Issued Nov. 22, 2000.	
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